

IN THE CLAIMS:

Please add new Claim 8 as shown below. The claims pending in the subject application read, as follows:

1. (Previously Presented) A solar power generation system comprising at least a solar cell and a cooling mechanism,

said cooling mechanism having

a cooling means for cooling said solar cell,

a memory means for memorizing an optimum cooling and driving state of said cooling means with respect to an output of said solar cell, and

an operation means for operating an optimum cooling and driving state of said cooling means with respect to an output of said solar cell,

said memory means comprises previously determined standard temperature values for an atmosphere where the solar cell is installed for every one of predetermined time points of the year, and

said operation means comprises a clocking function and operates said cooling means in accordance with a selected one of said standard temperature values from said memory means for a current time point at said installation location of the solar cell.

2. (Original) The solar power generation system according to claim 1, wherein the output of the solar cell is an output power or an output current from the solar cell.

3. (Original) The solar power generation system according to claim 1, wherein the cooling means is a cooling means in which a fluid coolant is used.

4. (Cancelled).

5. (Previously Presented) The solar power generation system according to claim 1, wherein said solar power generation system has a power conversion means for the output of the solar cell and said memory means and said operation means are provided such that said memory means and said operation means are included in said power conversion means.

6. (Original) The solar power generation system according to claim 1, wherein said solar power generation system has a power conversion means for the output of the solar cell and an output detection means for the output of the solar cell, where said output detection means is provided such that said output detection means is included in said power conversion means.

7. (Original) The solar power generation system according to claim 1, wherein said solar power generation system has a mechanism for tracking the sun.

8. (New) A method for controlling a solar cell in solar power generation, comprising the steps of:

- (a) detecting an output of said solar cell,
- (b) computing a magnitude of a rise in the temperature of said solar cell based on said detected output of said solar cell,
- (c) adding said computed temperature rise magnitude to a prescribed estimate temperature of said solar cell to presume a temperature of said solar cell at a current time,
- (d) computing a temperature difference between said presumed temperature and a temperature range within which the temperature of said solar cell is intended to control,
- (e) computing a forcible cooling drive magnitude for lowering said temperature difference by a cooling means for cooling said solar cell, and
- (f) driving said cooling means so as to meet said computed forcible cooling drive magnitude by means of a control means.